

Capacitor quality
JKC 2023-01-14

Dielectric absorption test:
Charge: 40.4 msec at +5 volts
Discharge: 2.88 msec
Relax: 50 msec

Dielectric codes:
PY = polyester
PP = polypropylene
PPS = polyphenylene sulfide
PC = polycarbonate
MC = multilayer ceramic
MICA = mica
AE = aluminum electrolytic

Distortion is dB ref: fundamental
* is < -120

Capacitance (nF)	Voltage	Dielectric	Manufacturer	Part Number	Absorption (mV * 10)	ESR 1 kHz	Zero bias		18 volt bias		
							2HD 1 kHz	3HD 1 kHz	2HD 1 kHz	3HD 1 kHz	
3300	50	PY	Wima	MKS2B043301H00KSSD	61						
1000	50	AE	Nichicon	UPW1H010MDD	589	7.30	-77	-82	-70	-84	
1000	63	PP	Vishay BC	2222 416 71005	18	0.05	*	*	*	*	
1000	63	PY	Kemet	R82DC4100AA60J	86	0.85	*	-80	-110	-102	small size, circa 2010
1000	50	PPS	Kemet	SMR5105J50J06L16.5	18	0.15	*	*	-105	*	
1000	??	PC	Electrocube	650B.....	46	0.17	*	-114	-96	-113	R/F CP10
560	??	PC	??	??	26	0.23	*	-117	-100	-118	R/F CP10
470	450	PP	Panasonic	ECW-FD2W474J4	8	0.11	*	*	*	*	
470	63	PPS	Kemet	SMR5474J63J05L16.5	15	0.13	*	*	*	*	
470	400	PP	Kemet	PHE426KD6470JR06L2	8.5	0.07	*	*	*	*	
470	50	PY	Xicon	PF1H474K	90	1.62	*	*	*	*	circa 2000
470	600	PY	Sprague	227084-47G	48	1.36	*	*	*	*	
470	100	PY	??	??	95	1.58	*	-110	*	-113	stacked film, circa 1980
220	400	PP	Kemet	R75MI3220AA30K	11	0.20	*	*	*	*	
220	100	PPS	Kemet	SMR5224J100J06L16.5	14	0.27	*	*	*	*	
220	450	PP	Panasonic	ECW-FD2W224JQ	9	0.18	*	*	*	*	
220	63	PP	Wima	FKP3C032204J00JI00	20	0.26	*	*	*	*	foil
180	100	PC	??	??	32	0.67	*	*	-103	-118	R/F CP10
150	??	PC	Electrocube	650B.....	28	0.82	*	-118	-102	-118	R/F CP10
100	63	PPS	Kemet	SMR5104J63J02L16.5	16	0.58	*	*	*	*	
100	63	MC C0G	Murata	RDE5C1H104J2K1H03B	4	0.26	*	*	-110	*	
82	630	PP	Panasonic	ECW-FD2J823JB	12	0.77	*	*	*	*	
68	200	PP	CDE	715P68352KD3	8	0.68	*	*	*	*	foil
56	63	MC C0G	Murata	RDE5C1H563J2K1H03B	12	0.83	*	*	-116	*	
47	250	PP	Wima	MKP2-.047/250/10	10	1.24	*	-93	*	-98	
47	63	MC C0G	Murata	RDE5C1H473J2K1H03B	14	0.96	*	*	-114	*	

Sheet1

47	250	PY	??	??	66	16.20	*	*	*	*	circa 1970
27	630	PP	Panasonic	ECW-F6273JL	9	1.90	*	*	*	*	
10	100	MC X7R	AVX	EC04ZE103K	465	249.00					
8.2	200	PY	??	??							
6.8	??	MICA	CDE	??	103	10.30	*	*	*	*	
6.8	80	PY	Sprague	??	48						
5.6	??	MC	??	??	16	8.00	*	*	*	*	R/F CP10

Audio cable

2 conductor shielded measured one conductor to other conductor + shield

single conductor shielded measured conductor to shield

CAT6 UTP cable measured 1 conductor to all other conductors tied together

Capacitance (nF)	Dielectric	Manufacturer	Part Number	Absorption (mV * 10)
		Canare	DA202 AES cable	34
		Canare	L-2T2S mic cable	3196
		West Penn	291	2799
		Alpha	2254/1	2650
		??	CAT6 UTP	578